MULTIMEDIA UNIVERSITY

STUDENT IDENTIFICATION NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2017/2018

BWP2024 – INTERNET AND WORLD WIDE WEB PROGRAMMING

(All sections / Groups)

12 OCTOBER 2017
2:30 a.m – 4.30 a.m
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This Question paper consists of 4 pages with 2 Sections only.
2. Attempt **ANY THREE** questions in **Section A** and **ANSWER ALL** questions in **Section B**. The distribution of the marks for each question is given.
3. Please write all your answers in the Answer Booklet provided.

SECTION A: ESSAY QUESTIONS (60 MARKS)

Instruction: Attempt any THREE questions

QUESTION 1

a) Discuss **FIVE (5)** factors which lead to the growth of Web 2.0.

(10 marks)

b) Differentiate **ul**, **ol**, and **li** tags in HTML5.

(6 marks)

c) Explain **TWO (2)** limitations of client-side scripting.

(4 marks)

(TOTAL: 20 MARKS)

QUESTION 2

a) Provide **FIVE (5)** types of Web 2.0 business models.

(10 marks)

b) Simplify the following script using a for-loop for storing data into `myArray` and another for-loop for printing the contents of `myArray` (you may ignore the html tags).

(10 marks)

```
1. <script type="text/javascript">
2. <!--
3. var myArray = new Array();

4. myArray[0] = 0;
5. myArray[1] = 1;
6. myArray[2] = 2;
7. myArray[3] = 3;
8. myArray[4] = 4;
9. myArray[5] = 5;

10. document.write(myArray[0] + myArray[1] +
    myArray[2] + myArray[3] + myArray[4] +
    myArray[5]);
11.     //-->
12. </script>
```

(TOTAL: 20 MARKS)

Continued...

QUESTION 3

a) Explain the **SIX (6)** levels of data hierarchy.

(12 marks)

b) Provide **FOUR (4)** possible e-business security risks.

(8 marks)

(TOTAL: 20 MARKS)

QUESTION 4

a) What are the **THREE (3)** Internet security requirements?

(9 marks)

b) Explain the **THREE (3)** types of relationship of relational database may have.

(9 marks)

c) What would be the possible output of the following code?

(2 marks)

```
1. <!DOCTYPE html>
2.
3. <!-- Fig. 2.2: heading.html -->
4. <!-- Heading elements h1 through h6. -->
5. <html>
6.    <head>
7.       <meta charset="utf-8">
8.       <title>Headings</title>
9.    </head>
10.     <body>
11.           <h1>Level 1 Heading</h1>
12.           <h2>Level 2 heading</h2>
13.           <h3>Level 3 heading</h3>
14.           <h4>Level 4 heading</h4>
15.           <h5>Level 5 heading</h5>
16.           <h6>Level 6 heading</h6>
17.        </body>
18.     </html>
```

(TOTAL: 20 MARKS)

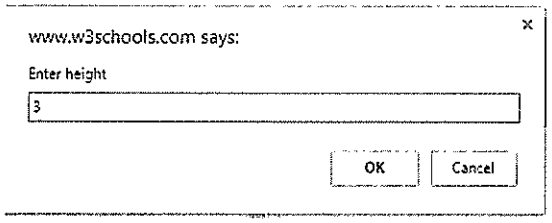
Continued...

SECTION B: PRACTICAL QUESTIONS (40 MARKS)

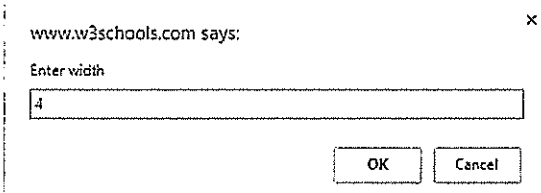
*Instruction: Answer **ALL** questions.*

QUESTION 5

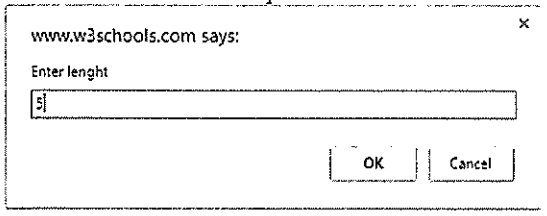
- Write a javascript which will calculate the volume of a cube (length x width x height), based on the following criteria:
  - The script should prompt users for each input as shown by the screenshots below (please ignore the phrase "www.w3schools.com says:").
  - Calculation of cube volume should be done in a function called `countCube`. This function should be located in the header.
  - Provide a meaningful output message based on the input from user as shown by the screenshots below. Note: the value of height, width and length in the output message *will change* depends on the values input by users in the prompt dialog.



First input

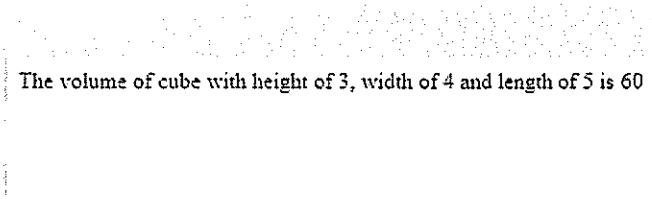


Second input



Third input

Input screenshot



Output screenshot

(20 marks)

(TOTAL: 20 MARKS)

Continued...

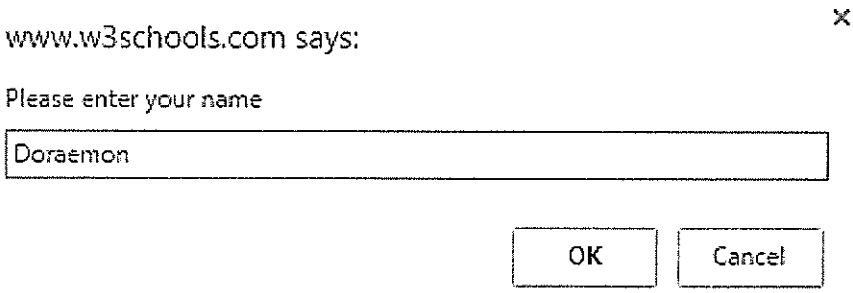
QUESTION 6

A new `Date` object contains information about current local time, and the `getHours` method of `Date` object will return an integer equal to the current hour (in a 24-hour clock format).
Write a javascript program to greet user based on the following conditions:

- Prompt user to input his/her name.
- If time is less than 10:00, create a "Good morning" greeting,
- If not, but time is less than 20:00, create a "Good day" greeting,
- Otherwise a "Good evening".

You are expected to use `if...else` statement to accomplish the task.
You may write your script inside html `body`.

(20 marks)



Input prompt

Good evening, Doraemon

Output

(TOTAL: 20 MARKS)

End of Paper